

10/576,468>13/04/2007

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FILE 'HCAPLUS' ENTERED AT 21:18:29 ON 12 APR 2007

E YABUSAKI K/AU 25

L1	18 S (E3 OR E6)
L2	2 S L1 AND CELLULOSE
L3	2953 S CELLULOSE II
L4	156 S L3 AND ADSOR?
L5	1 S (CELLULOSE II PHOSPHATE)
L6	46 S L3 AND PHOSPHOR?
L7	4 S L4 AND L6
L8	3 S L7 NOT L2

L2 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:317199 HCAPLUS <<LOGINID::20070412>>
DOCUMENT NUMBER: 144:352561
TITLE: Phosphoric esters of cellulose derivatives
and metal adsorbents comprising them
INVENTOR(S): Lu, Ming; Yabusaki, Katsumi
PATENT ASSIGNEE(S): Kowa Co., Ltd., Japan
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006035696	A1	20060406	WO 2005-JP17605	20050926
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2004-613705P P 20040929
AB 2,3-Dihydroxypropyl cellulose or 3-(2,3-dihydroxypropoxy)-2-hydroxypropyl cellulose phosphoric ester (part of which may have undergone carbamidation) is prepared and used as a metal-absorbing material. The metal adsorbent has a high metal-adsorbing ability and a high metal adsorption rate per unit weight. It has an excellent mech. strength and is highly effective in softening water or the like. It significantly efficiently removes heavy metals from wastewater, etc. It has excellent processability and can be formed into various shapes. It is applicable in a wide range and easily reusable.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 12 ibib abs 2

L2 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:409567 HCAPLUS <<LOGINID::20070412>>
DOCUMENT NUMBER: 142:431812
TITLE: Cellulose II phosphate ester and
metal-adsorbing material using the same
INVENTOR(S): Yabusaki, Katsumi
PATENT ASSIGNEE(S): Kowa Co., Ltd., Japan
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042587	A1	20050512	WO 2004-JP15501	20041020

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1679322 A1 20060712 EP 2004-792667 20041020
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 CN 1871260 A 20061129 CN 2004-80031426 20041020
 PRIORITY APPLN. INFO.: US 2003-515698P P 20031031
 WO 2004-JP15501 W 20041020

AB The invention relates to a cellulose II phosphate ester which may be partially reacted with carbamide; and a metal-adsorbing material using the cellulose II phosphate ester. The cellulose II phosphate ester can adsorb a metal ion in a solution with good efficiency, and thus, can be utilized in a metal adsorbing material and in a metal adsorbing apparatus

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s cellulose II
 351788 CELLULOSE
 4378 CELLULOSES
 352286 CELLULOSE
 (CELLULOSE OR CELLULOSES)
 2143594 II
 976 IIS
 2144151 II
 (II OR IIS)
 L3 2953 CELLULOSE II
 (CELLULOSE(W) II)

=> s l3 and adsor?
 601112 ADSOR?
 L4 156 L3 AND ADSOR?

=> s (cellulose II phosphate) or cellulose?phosphat?
 '?' TRUNCATION SYMBOL NOT VALID WITHIN 'CELLULOS?PHOPHAT?'
 The truncation symbol ? may be used only at the end of a search term. To specify a variable character within a word use '!', e.g., 'wom!n' to search for both 'woman' and 'women'. Enter "HELP TRUNCATION" at an arrow prompt (=>) for more information.

=> s (cellulose II phosphate)
 351788 CELLULOSE
 4378 CELLULOSES
 352286 CELLULOSE
 (CELLULOSE OR CELLULOSES)
 2143594 II
 976 IIS
 2144151 II
 (II OR IIS)
 565340 PHOSPHATE
 130810 PHOSPHATES
 616128 PHOSPHATE
 (PHOSPHATE OR PHOSPHATES)

10/576,468>13/04/2007

L5 1 (CELLULOSE II PHOSPHATE)
(CELLULOSE(W) II (W) PHOSPHATE)

=> d 15

L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:409567 HCAPLUS <<LOGINID::20070412>>
DN 142:431812
TI Cellulose II phosphate ester and
metal-adsorbing material using the same
IN Yabusaki, Katsumi
PA Kowa Co., Ltd., Japan
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005042587	A1	20050512	WO 2004-JP15501	20041020
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1679322	A1	20060712	EP 2004-792667	20041020
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1871260	A	20061129	CN 2004-80031426	20041020
PRAI	US 2003-515698P	P	20031031		
	WO 2004-JP15501	W	20041020		

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 13 and phosphor?
747427 PHOSPHOR?

L6 46 L3 AND PHOSPHOR?

=> s 14 and 16
L7 4 L4 AND L6

=> s 17 not 12
L8 3 L7 NOT L2

=> d 18 ibib abs

L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:593953 HCAPLUS <<LOGINID::20070412>>
DOCUMENT NUMBER: 91:193953
TITLE: Heavy metal ion adsorbents having thioamide groups
AUTHOR(S): Kaeriyama, Kyoji
CORPORATE SOURCE: Res. Inst. Polym. Text., Tsukuba, 300-21, Japan
SOURCE: Journal of Applied Polymer Science (1979), 24(5), 1205-13
CODEN: JAPNAB; ISSN: 0021-8995

DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Polymers containing thioamide groups for scavenging heavy metals from water were prepared by P2S5-sulfurization of cyanuric chloride-dicarboxylic dihydrazide copolymers (polyhydrazides) or of copolymers containing di-Me acrylamide or acrylamide or by reaction of methylolated thiourea, thiosemicarbazide, or alkylthiourea derivs. with active-H-containing polymers, e.g. polyethyleneimine (I), cellulose (II), I-II copolymers, or aminoethyl cellulose. Thus, carbodihydrazide-cyanuric chloride copolymer-P2S5 reaction products removed 100% Hg2+ from water containing 10 ppm Hg2+ and 10% NaCl(pH 4) after remaining in contact with the water overnight.

=> d 18 ibib abs 2-3

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1973:488820 HCAPLUS <<LOGINID::20070412>>
 DOCUMENT NUMBER: 79:88820
 TITLE: Chromatographic isolation of enzymes
 INVENTOR(S): Fujii, Katsumi; Takagahara, Isamu; Suzuki, Yasuo;
 Horio, Takekazu
 PATENT ASSIGNEE(S): Oriental Yeast Co., Ltd.
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2165406	A1	19730719	DE 1971-2165406	19711229
DE 2165406	B2	19750102		
DE 2165406	C3	19750814		

PRIORITY APPLN. INFO.: DE 1971-2165406 A 19711229

AB Phosphate-dependent enzymes, e.g. glucose 6-phosphate dehydrogenase, pyruvate kinase, or ribulose diphosphate carboxylase (I), were isolated from crude enzyme solns. by adsorption on a phosphate group-containing adsorbent [cellulose phosphate or phosphorylmethyl cellulose (II)] and elution with a phosphate group-competing substrate, coenzyme, or inhibitor. Thus, Candida utilis was autolyzed with AcOEt, extracted with (NH4)2SO4 solution, the solution purified on a Sephadex G-25 column and subsequently on a DEAE-cellulose column. The crude I solution obtained was applied to a II column and eluted with maleic acid-NaOH buffer pH 6.0 containing 5 + 10-5M ribulose diphosphate. I was obtained in 70% yield with a purity of 1100 IU/mg protein for an overall purification of 3800-fold.

L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1969:63637 HCAPLUS <<LOGINID::20070412>>
 DOCUMENT NUMBER: 70:63637
 TITLE: Chromatographic resolution of cobalt(III) complexes on ion-exchange cellulose
 AUTHOR(S): Yoshikawa, Yuzo; Yamasaki, Kazuo
 CORPORATE SOURCE: Nagoya Univ., Nagoya, Japan
 SOURCE: Inorganic and Nuclear Chemistry Letters (1968), 4(12), 697-700
 CODEN: INUCAF; ISSN: 0020-1650
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Cationic and anionic exchange celluloses, diethylaminoethyl cellulose (I) and phosphorylated cellulose (II), resp.,

were used successfully for the resolution of both cationic and anionic Co(III) complexes, resp. Thus $K[CoL] \cdot 2-H_2O$ ($H_4L = EDTA$) (42 mg.) in 10 ml. H_2O was passed through a column packed with I which was previously converted to the Cl-form with N HCl. The adsorbed complex was eluted with 0.02N HCl at a rate of 0.2 ml./min.; the effluent was divided into 3-ml. fractions. Fraction nos. 1-11 showed no optical rotation, while fraction nos. 12-16 showed pos. rotations with the maximum value $[M]_{25546} = 1070^\circ$ for the 13th fraction which corresponded to 25% resolution. The subsequent fractions showed the neg. rotations with the maximum $[M]_{25546} = -2180^\circ$ for the 22nd fraction, corresponding to 51% resolution. Similarly, the resolution of $[Co(en)_3]Cl_3$ on II was carried out. Fraction nos. 1-5 showed the neg. rotation with the maximum value $[M]_{25D} = -41^\circ$ for the 1st fraction. Fraction nos. 6-10 showed no rotation, while fraction nos. 11-51 and nos. 52 and 53 eluted by 2N HCl showed pos. rotation; the 53rd fraction showed the maximum rotation $[M]_{25D} = 56^\circ$. The Co(III) complexes of aminodiacetic acid (ida) and diethylenetriamine (dien), $K[Co(ida)_2]$ and $[Co(dien)_2]Br_3$, resp., were also resolvable.



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- ☐ **41.** [The action of ethylamine on cellulose - Part II-Solvent extraction of ethylamine-treated bacterial cellulose: Changes...](#)
Spedding, H., *Polymer*, Jan 1962
...the formation of **cellulose** II the ethylamine was...the former, liquid **absorption** bands were apparent...fibres of 'inclusion **cellulose**' retain' ca. 5 per...evidence from the hydroxyl-**absorption** region as to whether...experiment a film of **regenerated** cellulose was treated...
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- ☐ **42.** [Tables of contents](#)
Polymer Contents, Sep 1987
...hollow fibres of re-generated **cellulose** in various liquids {G} 4:,0 R...EL-KALLA and A.F. SAID The infrared **absorption** characteristics of poly-{methyl}...Balasundaram 227 The use of water **absorption** kinetic data to predict laminate...
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Polymer Contents, Jan 1988
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"regenerated cellulose" AND biosorbent

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- ☐ 1. [Metal removal from single and multimetallic equimolar systems by extracellular polymers extracted from activated...](#)

Guibaud, G. / Comte, S. / Bordas, F. / Baudu, M., *Process Biochemistry*, Feb 2005
...15 min. Solutions of ECP were placed in dialysis bags (**regenerated cellulose** tubular membrane from CelluSep with a nominal MWCO of 3500...removal from single and multimetallic systems by different **biosorbent** materials as evaluated by differential pulse anodic stripping...

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- ☐ 2. [INGESTIBLE GASTROINTESTINAL DEVICE](#)

LEVY, Mark M., *PATENT COOPERATION TREATY APPLICATION*, Nov 2004


An ingestible device is provided. The ingestible device comprises a sink mechanism, for generating net influx of at least one constituent-of-interest present in a gastrointestinal tract of an individual, and a confining mechanism for confining the sink ...

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- ☐ 3. [Ingestible gastrointestinal device](#)

Levy, Mark M., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Oct 2004

An ingestible device is provided. The ingestible device comprises a sink mechanism, for generating net influx of at least one constituent-of-interest present in a gastrointestinal tract of an individual, and a confining mechanism for confining the sink ...

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- ☐ 4. [Composition for binding bioactive substances](#)

Schneider, Michel / Chevreux, Pierre / Guillot, Christian, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, May 1984

...similarly and are capable of functioning as biocatalysts, **biosorbents**, etc. Thus, such carrier materials comprising a biofunctional...transformed, they are often named as "biocatalysts". Similarly, a "**biosorbent**" is a substrate to which there are bonded

biofunctional molecules...

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regenerated cellulose

See cellophane.

Hawley's Condensed Chemical Dictionary, 14th Edition
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keyword:"cellulose II" AND (phosphor*)

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- ☐ 1. [The crystal structure of methyl \$\beta\$ -cellotriside monohydrate 0.25 ethanolate and its relationship to cellulose II](#)

Raymond, S. / Henrissat, B. / Qui, D.T. / Kwick, A. / Chanzy, H.,
Carbohydrate Research, Nov 1995

...was achieved on image plate detectors positioned at 303 mm from the crystal. The plates were scanned with a Molecular Dynamic **Phosphor** Imager 400E. The data were corrected using the program FIT2D [14] to correct the distortion of the detector. The sets of intensities...

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- ☐ 2. [Raman spectral studies of polymorphy in cellulose. Part 1, Celluloses I and II / Rajai H. Atalla.](#)

Atalla, Rajai H., Sep 1975

...here because the spectral features are somewhat better resolved. The -5-cellulose II is a low-d.p. sample, regenerated from **phosphoric** acid at room temperature, chosen because of both its high crystallinity and its very low level of residual cellulose I. The...

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- ☐ 1. [The conversion from cellulose I to cellulose II in NaOH mercerization performed in alcohol-water systems: An X-ray...](#)

Mansikkamaki, P. / Lahtinen, M. / Rissanen, K., *Carbohydrate Polymers*, Mar 2007

The slurry-mercerization (SM) processes in 2-propanol-water and 2-propanol-ethanol-water and wet-mass-mercerization (WMM) process in ethanol-water solvents are investigated. Based on X-ray diffraction measurements in the earlier reports, we...

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- ☐ 2. [Evaluation of cellulose II powders as a potential multifunctional excipient in tablet formulations](#)

de la Luz Reus Medina, M. / Kumar, V., *International Journal of Pharmaceutics*, Sep 2006

The use of UICEL-A/102 and UICEL-XL, the cellulose II powders, as a multifunctional direct compression excipient in the design of tablets containing hydrochlorothiazide (HCTZ) or ibuprofen (IBU), the model low and high dose drugs,...

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- ☐ 3. [Two-dimensional spin-exchange solid-state NMR study of the crystal structure of cellulose II](#)

Kono, H. / Numata, Y., *Polymer*, Jun 2004

A two-dimensional (2D) ^{13}C - ^{13}C spin-exchange NMR experiment was applied to the uniformly ^{13}C -enriched cellulose II in order to obtain interatomic distance information in the cellulose II crystal. A radio frequency-driven recoupling...

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- ☐ 4. Fixed sites plasticized cellulose triacetate membranes containing crown ethers for silver(I), copper(II) and gold(III)...
Gherrou, A. / Kerdjoudj, H. / Molinari, R. / Seta, P. / Drioli, E.,
Journal of Membrane Science, Jan 2004
New cellulose triacetate membranes (CTA) containing the macrocyclic polyethers dibenzo-18-crown-6 (DB18C6), hexathia-18-crown-6 (HT18C6), diaza-18-crown-6 (DA18C6) and hexaaza-18-crown-6 (HA18C6) as fixed carriers were prepared,...
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- ☐ 5. Equilibria of Cu(II) in alkaline suspensions of cellulose pulp
Norkus, E. / Vaiciuniene, J. / Vuorinen, T. / Macalady, D.L.,
Carbohydrate Polymers, Jan 2004
Interaction of Cu(II) with cellulose pulp was studied by means of polarography, AAS, and ultraviolet-visible spectrophotometry. The experiments were carried out at room temperature and at selected initial cellulose pulp slurry pH values...
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- ☐ 6. A platinum electrode coated with a copper (II) aminopropyl complex-cellulose acetate membrane and its use for dissolved...
Lazarin, A.M. / Borgo, C.A. / Gushikem, Y., *Journal of Membrane Science*, Aug 2003
Highly dispersed Al²O₃ in a cellulose acetate membrane, resulting in an organic-inorganic hybrid material, Cel/Al²O₃, was prepared. It was further modified by attaching an organofunctional group by reacting with the precursor reagent...
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- ☐ 7. Phenotyping of Carbonic Anhydrase II in Fresh Blood and Bloodstains on Cellulose Acetate Membranes [26K]
Jun 2006
Phenotyping of Carbonic Anhydrase II in Fresh Blood and Bloodstains on Cellulose Acetate Membranes Andrus, RH Criminalist, State of California, Department of Justice, Fresno Regional Laboratory, Fresno, Calif.
[<http://www.astm.org/JOURNALS/FORENSIC/PAGES/4.htm>]
[similar results](#)
- ☐ 8. Production of cellulose II by Acetobacter xylinum in the presence of 2,6-dichlorobenzonitrile
Xiaochun, Y. / Atalla, R.H., *International Journal of Biological Macromolecules*, Aug 1996
This report provides X-ray diffraction and Raman spectral evidence that, when 2,6-dichlorobezonitrile is present in the culture medium, Acetobacter xylinum, which is a model system for investigation of the biosynthesis of native...
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- ☐ 9. The crystal structure of methyl β -cellotrioside monohydrate 0.25 ethanolate and its relationship to cellulose II

Raymond, S. / Henrissat, B. / Qui, D.T. / Kvick, A. / Chanzy, H.,
Carbohydrate Research, Nov 1995
The crystal structure of methyl α -D-glucopyranosyl-(1 \rightarrow 4)- α -D-glucopyranosyl-(1 \rightarrow 4)- α -D-glucopyranoside complexed with water and ethanol, C¹H³O¹⁶ was determined by...

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- ☐ **10.** Raman spectral studies of polymorphy in cellulose. Part 1, Celluloses I and II / Rajai H. Atalla.

Atalla, Rajai H., Sep 1975

"September, 1975."

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- ☐ **11.** Lateral crystallite size and lattice distortions in cellulose II samples of different origin

Hofmann, D. / Fink, H.P. / Philipp, B., *Polymer*, Feb 1989

On the basis of wide-angle X-ray scattering measurements on seven cellulose II samples of different origin, the effects of finite crystallite size and lattice distortions on the linewidth of the (10 1) reflection are discussed. In this...

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Ellis, R B / Willcox, P / Patrick, A D, *Clinical science and molecular medicine*, Dec 1975

1. In a patient with I-cell disease the activities of several acid hydrolases were elevated in plasma and reduced in cultured fibroblasts when compared with normal values. Normal activities for the enzymes were found in leucocytes. These findings agree ...

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Damkjaer, A., *International Journal of Radiation Applications & Instrumentation. Part D, Nuclear Tracks & Radiation Measurements*, Jan 1986

The alpha particle detection efficiency of KODAK LR 115 II has been measured and an analytical expression for the efficiency as a function of particle energy and angle of incidence has been found. Based on the analytical expression, the...

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Andrus, R H, *Journal of forensic sciences*, Jan 1981

A simple and rapid procedure is presented for the identification of carbonic

anhydrase II in fresh blood and bloodstains using cellulose acetate membranes. Identification of the phenotypes is simplified by the migration of the isozyme bands to one side ...

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☐ **15. [Native folded-chain cellulose II](#)**

Kuga, S. / Takagi, S. / Brown, R.M., *Polymer*, Jan 1993

A mutant strain of *Acetobacter xylinum* was isolated, which produces cellulose of anomalous band-like morphology in contrast to straight, crystalline microfibrils of cellulose I normally produced by the wild-type strain. The band material...

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☐ **16. [Does cellobiohydrolase II core protein from *Trichoderma reesei* disperse cellulose macrofibrils?](#)**

Woodward, J. / Affholter, K.A. / Noles, K.K. / Troy, N.T. / Gaslightwala, S.F., *Enzyme and Microbial Technology*, Aug 1992

Papain digestion of a *Trichoderma reesei* cellulase resulted in the generation of a protein, tentatively identified as cellobiohydrolase II core protein (CBH IIcp), that could be separated from the rest of the enzyme by gel filtration. It...

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Belakavadi, M. / Prabhakar, B.T. / Salimath, B.P., *BBA - General Subjects*, Jan 2007
...terminated by adding 0.5 ml of malachite green reagent and the **absorbance** was read at 620 nm. A standard curve was prepared using 0...of 10 ml were collected at a flow rate of 60 ml/h and their **absorbance** was read at 280 nm. Alternate fractions were assayed for protein...

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Muller, F.A. / Müller, L. / Hofmann, I. / Greil, P. / Wenzel, M.M. / Staudenmaier, R., *Biomaterials*, Jul 2006
...cellulose II monofilament fibres with a diameter of 10µm that were prepared by the so-called Lyocell(R)process[38,39]. A super **absorbent** polymer (sodium poly acrylic acid) was used to generate a total amount of 3wt% carboxyl groups in the cellulose fibres. Thus...

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Liu, W. / He, W. / Zhang, Z. / Zheng, C. / Li, J. / Jiang, H. / Ge, X. / Liu, H., *Journal of Crystal Growth*, May 2006
...by a60Co gamma-ray source at a dose rate of 50Gy/min for an **absorbed** dose of 30kGy. The whole reaction was performed under ambient...nanorods. The presence of C and O elements in XPS come from the **absorbed** gaseous molecules. Detailed spectra were taken at Cd and S...

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- ☐ 4. Purification and characterization of two forms of endo- β -1,4-mannanase from a thermotolerant fungus, *Aspergillus*...
Puchart, V. / Vrsanska, M. / Svoboda, P. / Pohl, J. / Ogel, Z.B. / Biely, P., BBA - General Subjects, Nov 2004
 ...the flow rate of 33 ml/h and 11-ml fractions were collected. **Adsorbed** proteins were liberated with a linear gradient of NaCl in...in 0.08% (v/v) aqueous trifluoroacetic acid, and the eluate **absorbing** at 210 nm was manually collected. The sequences homologous...
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Norkus, E. / Vaiciuniene, J. / Vuorinen, T. / Macalady, D.L., Carbohydrate Polymers, Jan 2004
 ...1990). The state of the copper(II) ions **adsorbed** by cellulose from aqueous solutions with...initial pH values shows either a decrease in **absorbance** or changes in both peak shape and **absorbance**. This confirms complex formation in the...
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Lazarin, A.M. / Borgo, C.A. / Gushikem, Y., Journal of Membrane Science, Aug 2003
 ...attached organofunctional groups and of **adsorbed** metal were 0.41 and 0.12 mmol per gram...by the Kjeldhal method. The amount of **adsorbed** copper was determined by treating the...the thin film Cel/Al 2 O 3 /SiL with **adsorbed** Cu(II) was obtained on a Beckman DU 640...
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Choi, M.M.F. / Hawkins, P., Sensors and Actuators B: Chemical, Apr 2003
 ...TOAFMA molecules. When exposed to H 2 S, the H 2 S molecules **adsorb** onto the surface and sub-surface layers of the PVC, neutralising...2 S in the carrier gas causes the number of H 2 S molecules **adsorbed** on the surface and sub-surface layers of the optode membrane...
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Lasztity, A. / Kelko-Levai, A. / Zih-Perenyi, K. / Varga, I., Talanta, Feb 2003
 ...A platinum hollow cathode lamp was operated at 30 mA. The **absorbance** of platinum was measured at 265.9 nm. Experiments were run...l samples and measurements were made based on peak height **absorbance**. Pyrolytically coated graphite tubes were used throughout...
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 ...Superdex 75. Alliumin was unadsorbed on DEAE-cellulose, but was **adsorbed** on Affi-gel blue gel, CM-cellulose and Mono S. Its antifungal...designated as agrocybin, was


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...chromatography on DEAE-Sephadex column. Both types of complexes contain Chlorophyll a, beta-carotene and minor quantities of Chl b. Red **absorbance** maxima are located at 676 nm and 673 nm for PPC-I and PPC-II, respectively. The degrees of reaction centre enrichment were...
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...Konkurrence-binding: jo mere umærket fedtsyre, der går ind i hydrofobe lommer, jo mere mærket stearat går ud af lommen **absorbansen** falder. Majs ns-LTP binder de umættede fedtsyrer bedre end hvedens LTP gør, dvs maj er bedre til at rumme de mere voluminøse...
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...photosystems (I and II) consist of light **absorbing** pigments, primarily chlorophyll (chl a...pigments such as carotenoids Each pigment **absorbs** particular wave lengths of light maximally...refer to the wavelengths of light each **absorb** maximally In some plants Photosystem I...
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14. [Blood purification therapies using dextran sulfate cellulose columns Liposorber and Selesorb.](#)
Asahi, Takashi / Yamamoto, Takashi / Kutsuki, Hidetoshi, Therapeutic apheresis and dialysis : official peer-reviewed journal of the International Society for Apheresis, the Japanese Society for Apheresis, the Japanese Society for Dialysis Therapy, Feb 2003
Liposorber is a column used for plasma purification that **adsorbs** low-density lipoproteins with high selectivity, while Selesorb is a column that selectively **adsorbs** anti-DNA antibodies, anticardiolipin antibodies, and immune complexes. Both columns...
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Nakagawa, Shizue / Nagisa, Yasutaka / Ikeda, Hitoshi, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Aug 2006
To provide a pharmaceutical composition for preventing, treating or development-inhibiting simple retinopathy or preproliferative retinopathy, comprising a compound


having angiotensin II antagonistic activity, or a salt thereof.

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- ☐ 16. Method for preventing, treating or inhibiting development of simple retinopathy and preproliferative retinopathy

Nakagawa, Shizue / Nagisa, Yasutaka / Ikeda, Hitoshi, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jun 2006

To provide a pharmaceutical composition for preventing, treating or development-inhibiting simple retinopathy or preproliferative retinopathy, comprising a compound having angiotensin II antagonistic activity, or a salt thereof.

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- ☐ 17. Cyclic nucleotide-independent phosphorylation of Vitellin by casein kinase II purified from *Rhodnius prolixus* oocytes

Silva-Neto, M.A.C. / Fialho, E. / Paes, M.C. / Oliveira, P.L. / Masuda, H., Insect Biochemistry and Molecular Biology, Aug 2002

...content of each fraction was estimated by **absorbance** at 280 nm. 2.5 CK II purification Oocyte...collected. Protein content was measured by **absorbance** at 280 nm. VT purity was assessed by...Protein content was estimated from the **absorbance** at 280 nm (- -). Aliquots from each...

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- ☐ 18. Ultrafiltration rejection of dissolved ions using various weakly basic water-soluble polymers

Juang, R.-S. / Chiou, C.-H., Journal of Membrane Science, Aug 2000

...mode by overpressure (100 psi). System Gold software was used for data acquisition. Detection was performed by indirect UV **absorbance** at 214 nm. Reproducibility of all concentration measurements was within 2% (mostly, 1%). The pH was measured with a Horiba...


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- ☐ 19. Novel compositions of eprosartan

Venkatesh, Gopadi M., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2003

...This patent discloses a wet milling procedure to produce particles of a crystalline drug substance having a surface modifier **adsorbed** on the surface thereof in an amount sufficient to maintain an effective average particle size of less than about 400 nm. This...

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- ☐ 20. The effect of polymeric supports and methods of immobilization on the performance of an optical copper(II)-sensitive...

Oehme, I. / Prattes, S. / Wolfbeis, O.S. / Mohr, G.J., Talanta, Nov 1998

...via the initial slope of the change in **absorbance** within 1 min. Layers made of hydrogel...The time dependence of the increase in **absorbance** due to formation of the blue zinc-con-copper...M16 was dark red and showed an average **absorbance** of 0.4 + 0.012 (n = 8) at 540 nm. This...

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...Preparation of endogenous TPA-**phosphorylated** membrane substrate Cells...facilitate PKC-mediated **phosphorylation** of endogenous membrane proteins...mM Tris-HCl pH 7.5, TPA-**phosphorylated** microsomal membrane (50...malachite green reagent and the **absorbance** was read at 620 nm. A standard...
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...chemical modification of cellulose by **phosphorylation** in phosphate solution and subsequent...so-called Lyocell(R)process[38,39]. A super **absorbent** polymer (sodium poly acrylic acid) was...Fig. 1b). EDX spot analysis confirmed **phosphorus** and calcium to be present in the surface...
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...and II) consist of light **absorbing** pigments, primarily chlorophyll...carotenoids Each pigment **absorbs** particular wave lengths...cost 12 NADPH and 18 ATP to **phosphorylate** and reduce PG and to **phosphorylate** RP The ADP, NADP+ and the...
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To provide a pharmaceutical composition for preventing, treating or development-inhibiting simple retinopathy or preproliferative retinopathy, comprising a compound having angiotensin II antagonistic activity, or a salt thereof.
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- ☐ 7. [Method for preventing, treating or inhibiting development of simple retinopathy and preproliferative retinopathy](#)
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To provide a pharmaceutical composition for preventing, treating or development-inhibiting simple retinopathy or preproliferative retinopathy, comprising a compound having angiotensin II antagonistic activity, or a salt thereof.
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...content was measured by **absorbance** at 280 nm. VT purity...galactosidase (116 kDa), **phosphorylase** b (98 kDa), albumin...homogenates and that its **phosphorylation** is not affected by...completely blocked VT **phosphorylation** (Fig. 1B, lane 6...estimated from the **absorbance** at 280 nm (- -). Aliquots...
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Shkuropatov, A.Ya. / Khatypov, R.A. / Volshchukova, T.S. / Shkuropatova, V.A. / Owens, T.G. / Shuvalov, V.A., FEBS Letters, Dec 1997
...the complex. However, the **absorbance** *Corresponding author. Fax...point by point at 10C with a **phosphorescopic** setup [18] in a vacuum-tight...410 nm. As expected, the **absorbance** changes at SS9, 429 and 4...arrows show the dRchons of the **absorbance** changes at S42 and SS9 nm...
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in chloroplasts of the...

Hast, T. / Follmann, H., *Journal of Photochemistry and Photobiology B: Biology*, Dec 1996

...pyranoside, okadaic acid, and **phosphorylated** amino acids were from sigma...I mL 0.5 M NaOH and the **absorbance** of nitrophenolate measured...reagent. After 5 min the **absorbance** at 660 nm was measured and...115 000 Bq mg⁻¹. For the **phosphorylation** of LHC II, a sample containing...

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Canales, J. / Pinto, R.M. / Costas, M.J. / Hernandez, M.T. / Miro, A. / Bernet, D. / Fernandez, A. / Cameselle, J.C., *Biochimica et Biophysica Acta (BBA)/Protein Structure and Molecular Enzymology*, Jan 1995

...substrates without terminal **phosphoryl** groups, the formation of products with terminal **phosphoryl** groups was coupled to alkaline...activity on ADP-ribose (O) **absorbance** at 280 nm) KCl. 1, ADPRibase-I...which ADPRibase-Mn remained **adsorbed** to the column. The enzyme...chromatograms were recorded with an **absorbance** detector set at 250 nm (339...

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Atalla, Rajai H., Sep 1975

...The -5- cellulose II is a low-d.p. sample, regenerated from **phosphoric** acid at room temperature, chosen because of both its high...while the O-H bonds, whether of cellulose itself or -7- of **adsorbed** water, are responsible for the dominant spectral features...

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Urata, H. / Tamura, M. / Urata, M. / Akagi, M., *FEBS Letters*, Oct 1992

...oligonucleotides were synthesized by a solid-phase P-cyanoethyl-**phosphoremidite** methods [151. cis-DDP was purchased from Aldrich Chemical...264 °C, values were determined by measuring changes in **absorbance** at 274 nm as a function of temperature at a duplex concentration...

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Favre, B. / Ojha, M., *FEMS Microbiology Letters*, Feb 1991

...literature. In vitro this enzyme **phosphorylates** a calpain-like protein...washed with this buffer and **adsorbed** proteins were eluted in...standard. 3.2. Protein **phosphorylation** assay Protein **phosphorylation** was usually assayed in...

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Babkina, G.T. / Jonak, J.V. / Rychlik, I., *Biochimica et Biophysica Acta (BBA)/Gene Structure and Expression*, Aug 1982

New types of azidoaryl analogs of GTP: @c-(4-azido)anilide of GTP (I), @c-(N-(4-azidobenzyl)-N-methyl)amide of GTP (II) and of GDP: @b-(4-azido)anilide of GDP (III), @b-(N-(4-azidobenzyl)-N-methyl)amide of GDP (IV) have been synthesized by...

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Thoen, C. / Slegers, H., *Biochimica et Biophysica Acta (BBA)/Gene Structure and Expression*, Jul 1985

...utilizes both ATP and GTP as **phosphoryl** donors and is completely...ATP and (Å) with GTP as **phosphoryl** donors. , **absorbents** at 260 nm. (b) Localization...as exogenous substrate. , **absorbance** at 280 nm O O, 32P incorporation...of the kinase activity is **adsorbed** to the column (Fig. 2b...

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Ishitsuka, H. / Kaji, A., *BBA Section Nucleic Acids And Protein Synthesis*, Feb 1972

...ribonuclease II3 or polynucleotide **phosphorylase**4. With the use of radioactive...later to be polynucleotide **phosphorylase**. Preparation o f Purified...2 ml were collected and **absorbance** at 260 run and radioactivity...presence of polynucleotide **phosphorylase**, the addition of inorganic...

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Powls, R. / Wong, J. / Bishop, N.I., *Biochimica et Biophysica Acta (BBA)/Bioenergetics*, Aug 1969

...fraction (Tubes o-4) was not **adsorbed** to the column its absorption...proteins of interest which were **adsorbed** to the column and progressively...u Åµ H 0 Å' w Å³ **ABSORBANCE** X 10 PROTEIN (mQ / ml) p...the absence of appreciable **absorbance** in fractions obtained from...catalyzed photo- NADP+ **phosphorylation** Mutant 26 2 2 IO 52 28 Mutant...

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- ☐ **19. Messenger RNA binding of a ribosome-associated protein kinase and a ribosomal phosphoprotein(s) in mouse plasmacytoma**

Quirin-Stricker, C. / Schmitt, M., *BBA Section Nucleic Acids And Protein Synthesis*, Aug 1977

...kinase (protein kinase II) **phosphorylated** PPx proteins which bound...with the suggested role of **phosphorylation** of histone and non histone...suggested previously [7] that **phosphorylation** of a ribosomal protein factor...phosphocellulose to which it did not **absorb** [9]. After concentration...

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Hirai, H. / Sekimizu, K. / Horikoshi, M. / Nakanishi, Y. / Natori, S., *FEBS Letters*, Sep 1988

...polymerase II in vitro [15]. **Phosphorylation** of S-II was shown to proceed...coupling of RNA synthesis and **phosphorylation** of S-II [16]. Thus, the...physiological significance of the **phosphorylation** of S-II has remained unknown...with 0.1 M KCl, and then **adsorbed** materials were eluted with...

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